

EXTENDED ABSTRACT

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

EDITORSAND COMPILERS:

Dr Maimunah Johari

Puan Norlinda Tendot Abu Bakar

Puan Maymunah Ismail

Puan Nor Halawah Ahmad

Cik Afzan Shahilla Amir Hamzah

Puan Azira Rahim

COVER DESIGN:

Rashidy Samsudin

Wan Nur Khalisah Shamsudin

Ridzuan Adli bin Azidin

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FOREWORD BY THE PROJECT DIRECTOR

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INNOVATION, INVENTION, AND DESIGN

FOREWORD BY THE RECTOR OF UITM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Ummi Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY, INNOVATION AND DIGITAL COMMUNICATIONS



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

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The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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	SAHIB@SAHIBUDDIN
	VICE CHANSELLOR,
	UNIVERSITI TEKNOLOGI MARA
CHAIRMAN I	YB DATUK FAIRUL NIZAM BIN ROSLAN
	MELAKA STATE EXCO OF SCIENCE,
	TECHNOLOGY, INNOVATION AND DIGITAL
	COMMUNICATIONS
CHAIDMANH	DDOCTO DD DAGDI DDI ZA DII
CHAIRMAN II	PROF TS. DR RASDI BIN ZAINI
ADVISORS	ASSOCIATE PROFESSOR DR. NUR HAYATI BINTI
	ABD RAHMAN
	DEPUTY RECTOR (RESEARCH & INDUSTRIAL
	LINKAGES)
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	DEPUTY RECTOR OF STUDENTS AFFAIRS
	DR MOHAMMAD NOR AFANDI BIN IBRAHIM
	DEPUTY RECTOR OF ACADENIC AFFAIRS
DD O HEST DIDLEGTOR	
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	MOHD AZAHAR
	RASEEDA BINTI HAMZAH
	TS. DR. NOR AFIRDAUS BINTI ZAINAL ABIDIN
DESIGN & MULTIMEDIA	EN RASHIDY SAMSUDIN
	RIDZUAN ADLI BIN AZIDIN
	WAN NUR KHALISAH SHAMSUDIN
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MANAGEMENT	PN AFZAN NOR BINTI TALIB
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i.	

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	FAIQAH HAFIDZAH BINTI HALIM
	NORSHAHIDATUL HASANA BINTI ISHAK
	HAZRATI ZAINI
	KHAIRUL NURMAZIANNA ISMAIL
SPONSORSHIP	DR MOHD SYUKRI BIN ABDULLAH
PROGRAM BOOK, ABSTRACT &	DR MAIMUNAH JOHARI
PUBLICATION	PN MAYMUNAH ISMAIL
	PN NOR HALAWAH AHMAD
	PN AZIRA RAHIM
	NORLINDA TENDOT ABU BAKAR
	AFZAN SHAHILLA AMIR HAMZAH
MEDIA & PUBLCITY	DR NOOR AFZALIZA NAZIRA BINTI IBRAHIM
	DR MOHD SUFIEAN BIN HASSAN
	ENCIK KHAIRI BIN KHAIRUDDIN
	DR NUR SHAZANA BINTI ABDUL RANI
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	MASLIZA BINTI MOHD RAZALI
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

- Encourage and instil passion towards inventing and innovating among UiTM
 Cawangan Melaka staff, students and academicians of local and international higher education institutions;
- 2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
- 3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
- 4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
- 5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

'EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION'

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Melaka International Intellectual Exposition (MIIEX'2024)

*Blow Wave Pro

Syamimi Alyaa Azwa, Norshamira Zulkifli, Siti Adrina Fitri Shamsul, Nur Shariza Najua

Zakaria, Nur Arina Mohd Asri, Siti Aisyah Asrul

Universiti Teknologi Mara, Melaka, Malaysia.

aisyahasrul@uitm.edu.my

Abstract

This format is to be used for submissions that are published in the eMonograph of MIIEX 2024.

We wish to give this eMonograph a consistent and high-quality appearance. We therefore ask

authors to follow some simple guidelines. In essence, you should format your abstract exactly

like this document. The easiest way to do this is simply to download a template from the

conference website and replace the content with your own material. The abstract should not be

more than 300 words each. Abstract should include problem statement, objectives, novelty,

impact/usefulness and potential for commercialization.

Keywords: Blow dryer, Serum infusion, Efficient styling, Hair health

INTRODUCTION

The Comb Hair Dryer with Serum is a new tool that incorporates a serum dispenser into the comb

attachment of the dryer. We already find the problem before we create this product which is

Small Battery Capacity. Frequent use may quickly drain the battery, leading to interruptions

during styling sessions and requiring frequent recharges. The solution is we make large battery

capacity. The large battery capacity provided can help users to prepare and facilitate their affairs

and can be used for a long time. The second problem is Electrical Dependency. Reliance on an

electrical connection restricts the device's usability to areas with power outlets. The solution is

we make this product as wireless so that consumers can use this product anywhere without having

to find a plug. Lastly is Serum Dispensing Inconvenience. The design of the serum dispenser

may lead to clogging and inconsistent distribution, hindering the device's ability to deliver

nourishing benefits effectively. So we discuss to solve this problem with make the convenience

480

product. Our product's consumers doesn't have to make a lot of step to do their haircare routine. To strengthen our statement, we also include a proof for it

2. OBJECTIVE

Blow Wave Pro is an innovative product. It is because we create a multifunctional tool for hair. Our product provides 3 functions in 1 tool which is for straightening, moisturizing, and drying our hair. The objective of our product is to make people's daily affairs easier. Based on the function of our product, it is no longer denied that people do not have to use a lot of hair products to take care of their hair. Not only that, but it is also saving people's time and money. The reason why our product saves time is because consumers does not need to change to another hair product to dry their hair nor to straighten their hair with this way people no need to rush to get ready to go to work or to college. Other than that, our product does not need to use electricity, which can save our money from paying high amount electric bill. Finally, our product is easier for people to bring anywhere because it is compact size and lightweight compared to other products on the market that come with heavier and huge sizes that can cause difficulty to bring anywhere.

3. NOVELTY & INVENTIVENESS

When it comes to hair care, a hair dryer with a serum application mechanism can be revolutionary. Temperature sensors and automated shut-off mechanisms are examples of built-in safety elements that would guarantee dependable and secure functioning. These safeguards would prevent malfunctions or overheating of the gadget and the user. Aside from that, the hair dryer comb could have a range of treatment settings catered to particular hair issues, such moisture, repair, or frizz control. To meet various needs, each mode could provide a special mix of heat, ventilation, and serum application. Finally, a detachable comb design would provide hygienic serum application with every use and make cleaning and maintenance easier. It is possible to remove the comb attachment for a thorough cleaning or to replace it if necessary. Last but not least, this product also have time saving convenience. By combining the functions of a hair dryer and a serum dispenser into one device, users can streamline their hair care routine, saving time and effort. The all-in-one design eliminates the need to use multiple tools and products separately, making styling more efficient and hassle-free.

4. PRACTICALITY & USEFULNESS

A comb hair dryer with serum infusion combines the functions of a hair dryer and a serum dispenser into one device, streamlining the hair care routine. It saves time and effort by allowing users to achieve multiple goals simultaneously. The even distribution of serum during the drying process ensures that the hair receives consistent nourishment, resulting in improved health, reduced frizz, and enhanced manageability. It empowers individuals to effortlessly attain salon-quality results at home.

5. CONCLUSION

To sum up, the Comb Hair Dryer with Serum combines the features of a hair dryer and a serum application into a single, handy gadget, providing a cutting-edge approach to hair care. Its ability to quicken the hair care routine and save time while producing professional grade at home is testament to its practicality and utility. This creative gadget guarantees uniform application of nourishing serum, boosting hair health and shine and limiting heat damage and frizz by integrating a serum dispenser inside the comb attachment. Its wireless functionality and small size further increase its usefulness by giving customers previously unheard-of mobility while styling. In summary, the Comb Hair Dryer with Serum is a highly adaptable, easy to use, and essential tool for any styling collection that is transforming the way we take care of our hair

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